

Software Engineering Flow Chart

2021 – 2022 Catalog Year

				Required Courses				
Prerequisite Courses (if needed)				1 st Semester	2 nd Semester	3 rd Semester	4 th Semester	5 th Semester
MATHEMATICS: MAT 051, 052, 053, 055, 056, 057 (1 credit each) Diagnostic Math Modules	MAT 121/122 (3-4) Intermediate Algebra	MAT 151/152 (3-4) College Algebra and	MAT 182 (3) Trigonometry OR MAT 187 (5) Pre-Calculus	MAT 220/221 (4-5) Calculus I	MAT 230/231 (4-5) Calculus II	MAT 240/241 (4-5) Calculus III		
PHYSICS:		PHY 111 (4) General Physics I	PHY 112 (4) General Physics II OR 1 year high school physics*		PHY 121 (4) University Physics I: Mechanics			
BIOLOGY OR CHEMISTRY:			CHM 130 (3) & CHM 130LL (1) Fundamental Chemistry OR 1 year high school chemistry* AND eligibility for CRE 101 or grade of "C" or better in RDG 100.				For Lab Science Sequence, please select either Biology, Chemistry, Geology or PHY 131 sequence. Make sure you select from the same subject area or discipline. See second page.	
ENGINEERING:				ECE 102 (2) Engineering Analysis Tools & Design CSC 110 or 110AA or 110AB (3-4) Introduction to Computer Science	ECE 103 (2) Engineering Problem Solving & Design CSC 205 or 205AA or 205AB (3-4) Object Oriented Programming and Data Structures	CSC/EEE 120 (4) Digital Design Fundamentals CSC 240 (3) Introduction to Programming Languages.	CSC/EEE 230 (4) Computer Organization and Assembly Language ECE 280 (3) Foundational Statistics for Engineers Transfer to ASU-Poly as EGR 280 (3)	
ENGLISH:			WAC 101 (3) Writing Across the Curriculum	ENG 101 (3) First Year Composition I	ENG 102 (3) First Year Composition II			
GENERAL EDUCATION:				SB with H or G (3) See Academic Advisor for more information.	HU with L and C (3) See Academic Advisor for more information. DAH 255, ENH 255, or MHL 204 recommended.	Recommended Humanities course: ECE 150 (3) Exploring Engineering and its impact on Society.	HU with H or G (3) AND SB chosen from COM 100 or COM 110 or COM 230 (3) Oral Communication	

A 3.0 transfer GPA as calculated by ASU for admissions is required. All courses must be completed with a grade of "C" or better. **Be sure to check MAPP (ASU Pathway Agreement) for requirements. Link to **BSE Pathway**: [Pathway Agreement \(asu.edu\)](https://asu.edu)

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CHANDLER-GILBERT
COMMUNITY COLLEGE
A MARICOPA COMMUNITY COLLEGE



STEM

Lab Science Sequence

BIO 181: General Biology I (SQ) AND BIO 182: General Biology II (SG)

BIO 201: Human Anatomy and Physiology I (SG) AND
BIO 202: Human Anatomy and Physiology II (SG)

CHM 113: General Chemistry I (SQ) AND CHM 116:
General Chemistry II (SQ)

GLG 101: Introduction to Geology I (Physical) (SQ) AND
GLG 103: Introduction to Geology I-Laboratory (SQ)

GLG 102: Introduction to Geology II (Historical) (SG & H)
AND GLG 104: Introduction to Geology II-Laboratory
(SG)

GLG 110: Dangerous World (SQ & G) AND GLG 111:
Dangerous World Laboratory (SQ)

PHY 131: University Physics II: Electricity and
Magnetism (SQ) AND PHY 132: University Physics
Laboratory II (SQ)

Note: Students who want to take PHY 121/122 and PHY
131/132 for their Lab Science Sequence will need to
select a different lab science course (4 hours) from the
list.

Natural Science [SQ, SG]

CHM 150: General Chemistry I and
CHM 151LL: General Chemistry I Laboratory or
CHM 151: General Chemistry I and
CHM 151LL: General Chemistry I Laboratory or
CHM 150AA: General Chemistry I and
CHM 152: General Chemistry II and
CHM 152LL: General Chemistry II Laboratory or
CHM 152AA: General Chemistry II OR

BIO 181: General Biology (Majors) I and
BIO 182: General Biology (Majors) II

8-9 hrs



Select a Biology, Chemistry or Physics
sequence. Fulfills the SQ/SG Lab
Science requirement at ASU.

Please see an advisor for your selection.